

Henry Brendzel


TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Complete if Known	
	Application Number	09/849,737
	Filing Date	5/4/2001
	First Named Inventor	Qian Huang
	Examiner Name	Elias Desta
	Group/Art Unit	2857
Total number of pages in this Submission: this page, plus 77	Attorney Docket ID	Huang 2000-0221

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Form (<input type="checkbox"/> Check included)	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> Postcard(s)
<input type="checkbox"/> Fee Form not included, but should a fee be due, the Commissioner is Authorized to charge Deposit Account No 500732 of Henry T. Brendzel	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Small Entity Statement
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Firm or Individual Name	Henry T. Brendzel	
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Huang 2000-0221

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Patent Application

Inventor(s)	Qian Huang Zhu Liu	Case Name	Huang 2000-0221
Filing Date	5/4/2001	Serial No.	09/849,737
Examiner	Elias Desta	Group Art Unit	2857
Title	A New Distance Measure for Probability Distribution Function of Mixture Type		

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231
SIR:

AMENDMENT

In response to an Office action dated November 6, 2002, please amend the above-identified application as follows:

IN THE CLAIMS:

1. A method executed in a computer of computing a distance measure between first and second mixture type probability distribution functions, $G(x) = \sum_{i=1}^N \mu_i g_i(x)$, and

$H(x) = \sum_{k=1}^K \gamma_k h_k(x)$, pertaining to audio data, the improvement characterized by:

said distance measure being

$$D_M(G, H) = \min_{w=\{\omega_{ik}\}} \sum_{i=1}^N \sum_{k=1}^K \omega_{ik} d(g_i, h_k),$$

where $d(g_i, h_k)$ is a function of the distance between a component, g_i , of the first probability distribution function and a component, h_k , of the second probability distribution function where

$$\sum_{i=1}^N \mu_i = 1 \text{ and } \sum_{k=1}^K \gamma_k = 1,$$

and

$$\omega_{ik} \geq 0, 1 \leq i \leq N, 1 \leq k \leq K,$$

and

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